Name of Work :Maintenance and Repairs of Borewell in Bagalagunte Ward No 14

Item No	Item code	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1		2	3	4	5	6	7	8	9	10	11
1	12.33 (D)	Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment, transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(D) P NO 133									
	Rewinding of motor of 10 HP (D)		14	1				14.00			
							Total Qty	14.00	Job	4902.80	68,639.20
		Basic Rate	4760.0								
		A.W 3%	142.8								
		TOTAL RATE	4902.8								
2	12.33 (E)	Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment, transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(E)P NO 133									
	Rewinding of motor of 12.5HP €		6	1				6.00			
							Total Qty	6.00	Job	5479.60	32,877.60
		Basic Rate	5320.0								
		A.W 3%	159.6								
		TOTAL RATE	5479.6								
3	12.33 (F)	Providing, Rewinding of submersible pumpsets with copper insulation wire suitable gauge Including opening and refitting after repair, removal of submersible pumpset and refixing in position at work site with all labour lead lift all equipment, transportation as per instructions of Engineer incharge of work as per ISI specifiction with guarantee period of not less than 6 months (RWS SR 19-20 I NO: 12.33(F)P NO 133									
	Rewinding of motor of ~~12.5~~ 15 HP (F)		8	1				8.00			
							Total Qty	8.00	Job	6200.60	49,604.80
		Basic Rate	6020.0								
		A.W 3%	180.6								
		TOTAL RATE	6200.6								
4	12.33.1(A)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(A) P NO 134)									
	(a)Pump bowls		5	30				150.00			
							Total Qty	150.00	Each	836.36	1,25,454.00
		Basic Rate	812.0								
		A.W 3%	24.36								
		TOTAL RATE	836.4								
5	12.33.1(B)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(B) P NO 134)									
	(B)Intermidiate piece(I.P) with I.P for leaded bronze bush		5	1				5.00			
							Total Qty	5.00	Each	749.84	3,749.20
		Basic Rate	728.0								
		A.W 3%	21.84								

BOQ Item No	Item code	Description Of item of work	Nos		Length	Breath	Depth	Quantity	Units	Rate	Amount
1		2	3	4	5	6	7	8	9	10	11
		TOTAL RATE	749.8								
6	12.33.1(C)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(C) P NO 134)									
	(C)Oil seal		5	30				150.00			
						Total Qty		150.00	Each	176.13	26,419.50
		Basic Rate	171.0								
		A.W 3%	5.13								
		TOTAL RATE	176.1								
7	12.33.1(D)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(D) P NO 134)									
	(D)Oil seal steel bush		5	30				150.00			
						Total Qty		150.00	Each	176.13	26,419.50
		Basic Rate	171.0								
		A.W 3%	5.13								
		TOTAL RATE	176.1								
8	12.33.1(E)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(E) P NO 134)									
	(D)Guide vane		5	2				10.00			
						Total Qty		10.00	Each	463.50	4,635.00
		Basic Rate	450.0								
		A.W 3%	13.5								
		TOTAL RATE	463.5								
9	12.33.1 (F)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(F) P NO 134)									
	(D)Impeller shell moulded with alluminium & bronze		5	30				150.00			
						Total Qty		150.00	Each	702.46	1,05,369.00
		Basic Rate	682.0								
		A.W 3%	20.46								
		TOTAL RATE	702.5								
10	12.33.1 (G)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(G) P NO 134)									
	(G)Dishcharge outlet(D.O) Bearing and D.O Steel bush		5	2				10.00			
						Total Qty		10.00	Each	659.20	6,592.00
		Basic Rate	640.0								
		A.W 3%	19.2								
		TOTAL RATE	659.2								
11	12.33.1 (H)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(H) P NO 134)									
	(H)D.O Bearing		5	2				10.00			
						Total Qty		10.00	Each	659.20	6,592.00
		Basic Rate	640.0								
		A.W 3%	19.2								
		TOTAL RATE	659.2								

	Item code	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
		2	3	4	5	6	7	8	9	10	11
	12.33.1 (I)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(I) P NO 134)									
	(I)Steel bush (D.O steel bush)		5	2				10.00			
							Total Qty	10.00	Each	219.39	2,193.90
		Basic Rate	213.0								
		A.W 3%	6.39								
		TOTAL RATE	219.4								
13	12.33.1 (J)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(J) P NO 134)									
	(J)Allen screw		5	2				10.00			
							Total Qty	10.00	Each	1059.87	10,598.70
		Basic Rate	1029.0								
		A.W 3%	30.87								
		TOTAL RATE	1059.9								
14	12.33.1 (K)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(K) P NO 134)									
	(J)Pump shaft (Stainless Steel)Counter less ground wit key way upto 8 stages		5	1				5.00			
							Total Qty	5.00	Each	1059.87	5,299.35
		Basic Rate	1029.0								
		A.W 3%	30.87								
		TOTAL RATE	1059.9								
15	12.33.1 (L)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(L) P NO 134)									
	(L)Pump key (Stainless Steel)		5	30				150.00			
							Total Qty	150.00	Each	316.21	47,431.50
		Basic Rate	307.0								
		A.W 3%	9.21								
		TOTAL RATE	316.2								
16	12.33.1 (M)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(M) P NO 134)									
	(M)Pump coupling (Stainless)		5	1				5.00			
							Total Qty	5.00	Each	1705.68	8,528.40
		Basic Rate	1656.0								
		A.W 3%	49.68								
		TOTAL RATE	1705.7								
17	12.33.1 (N)	Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(N) P NO 134)									
	(N) Non return (NRV) assembly complete with rubber "0"		5	2				10.00			
							Total Qty	10.00	Each	324.45	3,244.50
		Basic Rate	315.0								
		A.W 3%	9.45								
		TOTAL RATE	324.5								

Item code	Description Of item of work	Nos		Measurements						
				Length	Breath	Depth	Quantity	Units	Rate	Amount
	2	3	4	5	6	7	8	9	10	11
18	12.33.1 (0) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(0) P NO 134)									
	(0) Cable guard	5	2				10.00			
						Total Qty	10.00	Each	324.45	3,244.50
	Basic Rate	315.0								
	A.W 3%	9.45								
	TOTAL RATE	324.5								
19	12.33.1 (P) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(P) P NO 134)									
	(P) Stainer	5	1				5.00			
						Total Qty	5.00	Each	297.67	1,488.35
	Basic Rate	289.0								
	A.W 3%	8.67								
	TOTAL RATE	297.7								
20	12.33.1 (Q) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(Q) P NO 134)									
	(Q)Brass Filter	5	1				5.00			
						Total Qty	5.00	Each	655.08	3,275.40
	Basic Rate	636.0								
	A.W 3%	19.08								
	TOTAL RATE	655.1								
21	12.33.1 (R) Replacing of pump parts. The following main componenets of submersible pumpsets requirng replacements as per ISI specifiction with guarantee period of not less than 12 months (RWS SR 19-20 I NO: 12.33.1(R) P NO 134)									
	(R)Labour Charges (Overhauling only)	5	1				5.00			
						Total Qty	5.00	Each	504.70	2,523.50
	Basic Rate	490.0								
	A.W 3%	14.7								
	TOTAL RATE	504.7								
22	12.33.3 (D) Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(D) P NO 135)									
	(D)Upper Flange	5	2				10.00			
						Total Qty	10.00	Each	412.00	4,120.00
	Basic Rate	400.0								
	A.W 3%	12								
	TOTAL RATE	412.0								
23	12.33.3 (E) Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(E) P NO 135)									
	(E)Lower flange	5	2				10.00			
						Total Qty	10.00	Each	412.00	4,120.00
	Basic Rate	400.00								
	A.W 3%	12								
	TOTAL RATE	412.0								
24	12.33.3 (H) Providing and Replacing of Rotor: as per ISI specifiction with guarantee period of not less than 12 months(RWS SR 19-20 I NO: 12.33.3(H) P NO 135)									

Sl no	Item code	Description Of item of work	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1		2	3	4	5	6	7	8	9	10	11
	(H)Lock ring		5	2				10.00			
							Total Qty	10.00	Each	158.62	1,586.20
		Basic Rate	154.00								
		A.W 3%	4.62								
		TOTAL RATE	158.6								
25	12.34 (A)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(A) P NO 135)									
	(A)Carbon housing		5	2				10.00			
							Total Qty	10.00	Each	1171.11	11,711.10
		Basic Rate	1137.00								
		A.W 3%	34.11								
		TOTAL RATE	1171.1								
26	12.34 (B)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(B) P NO 135)									
	(B)Thrust Bearing block assembly		5	1				5.00			
							Total Qty	5.00	Each	1359.60	6,798.00
		Basic Rate	1320.00								
		A.W 3%	39.6								
		TOTAL RATE	1359.6								
27	12.34 (C)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(C) P NO 135)									
	(C)Tip Carbon/Ferrode Padd		5	2				10.00			
							Total Qty	10.00	Each	111.24	1,112.40
		Basic Rate	108.00								
		A.W 3%	3.24								
		TOTAL RATE	111.2								
28	12.34 (D)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(D) P NO 135)									
	(D)Studs and Nuts		5	8				40.00			
							Total Qty	40.00	Each	89.61	3,584.40
		Basic Rate	87.00								
		A.W 3%	2.61								
		TOTAL RATE	89.6								
29	12.34 (E)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(E) P NO 135)									
	(E)Bearing (Gun metal) centrifugal cost alliminium bronze bearing bush		5	4				20.00			
							Total Qty	20.00	Each	482.04	9,640.80
		Basic Rate	468.00								
		A.W 3%	14.04								
		TOTAL RATE	482.0								
30	12.34 (F)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(F) P NO 135)									

BQ Item No	Item code	Description Of item of work	Measurements Nos	Length	Breath	Depth	Quantity	Units	Rate	Amount
1		2	3 4	5	6	7	8	9	10	11
		(F)Criclips	5 2				10.00			
						Total Qty	10.00	Each	61.80	618.00
		Basic Rate	60.00							
		A.W 3%	1.8							
		TOTAL RATE	61.8							
31	12.34 (G)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(G) P NO 135)								
		(G)Motor Base with pin	5 1				5.00			
						Total Qty	5.00	Each	569.59	2,847.95
		Basic Rate	553.00							
		A.W 3%	16.59							
		TOTAL RATE	569.6							
32	12.34 (H)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(H) P NO 135)								
		~~(H)Transportation of pumping machinery~~ g) Motor BASE with pin	5 1				5.00			
						Total Qty	5.00	Each	569.59	2,847.95
		Basic Rate	553.00							
		A.W 3%	16.59							
		TOTAL RATE	569.6							
33	12.34 (i)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(i) P NO 135)								
		(i)Transportation of pumping machinery	5 1				5.00			
						Total Qty	5.00	Each	1117.55	5,587.75
		Basic Rate	1085.00							
		A.W 3%	32.55							
		TOTAL RATE	1117.6							
~~33~~ 34	12.34 (i)	Providing and Replacing of Carbon housing Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad(RWS SR 19-20 I NO: 12.34(i) P NO 135)								
		(i)Re-errection charges of pumping machinery including overhouling and painting	5 1				5.00			
						Total Qty	5.00	Each	1762.33	8,811.65
		Basic Rate	1711.00							
		A.W 3%	51.33							
		TOTAL RATE	1762.3							
~~34~~ 35	2.6.4	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 6.0Sq.mm (ELECTRICAL SR 2019-20 P-07/I. NO 2.6.4)								
			9 1	600.00			5,400.00			
						Total Qty	5400.00	Rmtr	205.00	11,07,000.00
		Basic Rate	205.00							
		A.W 0%	0							
		TOTAL RATE	205.0							

SQ Item No	Item code	Description Of item of work.	Nos		Measurements Length	Breath	Depth	Quantity	Units	Rate	Amount
1		2	3	4	5	6	7	8	9	10	11
35 36	2.6.4	Supplying and delivery at site brand new star/Essen/Lotus/Sun-Shines/Adarsh/ G.K.Controls Best Indigenous make combined energy meter-cum-**control panel board** unit minimum mechanically strong suitable for operation on 3HP 50HZ 380/440 Volts AC supply with spring loaded latch locking Device with a key Ribbs should be provided. contron panal board unit suitable for operation on 3HP 50HZ 380/440 Volts AC shall be consists Etc. complete the panal board shall be fabricated in single unit in the above components panal board suitable pump set 10HP to 20HP with stae delta starter out door panel board up to 20HP (SR PWD 2018-19 P. No. XLVII/13)									
			8	1				8.00			
							Total Qty	8.00	No	21630.00	1,73,040.00
		Basic Rate	21000.00								
		A.W 3%	630								
		TOTAL RATE	21630.0								
36 37	SL No-44	Supplying and delivery of Submersible Pump Sets of 150mm dia suitable for bore well and confirming to IS 8034 specifications and its latest ammendments, 3-Phase, SS Bowl and impeller with low volt motor with testing as per instructions of Engineer incharge of work.15HP/11KV 35 STAGE (SR KPWD SR 2019-20, Page No-XLII , SL No-44)									
			~~1~~	1				~~1~~ 1.00			
							Total Qty	~~9.00~~ 1.00	No	69755.72	4,88,290.04 ~~6,27,801~~.48
		Basic Rate	67724.00								
		A.W 3%	2031.72								
		TOTAL RATE	69755.7								
~~37~~ 38	12.16	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.(SR RDWS&S 2019-20, Pg No.130 I No. 12.16)									
			42	1				42.00			
							Total Qty	42.00	No	5819.50	2,44,419.00
		Basic Rate	5650.00								
		A.W 3%	169.5								
		TOTAL RATE	5819.5								

		Total amount	26,20,3	15.14	25~~15407~~.58
		ADD 12% GST	3,14,43	7.82	~~301848~~.91
		MISC AND ROUNDOFF	6524	7.04	~~182743~~.51
		TOTAL AMOUNT IN RS			3000000.00

8

Assistant Engineer
~~AE~~-14

Assistant Executive Engineer
T Dasarahalli Sub- Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P

ADMINISTRATIVELY SANCTIONED FOR

(Rupees Thirty lakhs only...

.....Rs.30.00 lakhs.....

Under the Head of Account..P.-1774.....

.....

.....135/2020-21..

Registered as no EE(D.D.)/AS. ....Subject

to conditions contained in Enclosed Memo

No. EE/PD/AE/134/2020-21 Dt: 25/09/2020

Exe. Engr

JE/AE. (DASARAHALLI) BH;

Technically Sanctioned For Rs: 30,00,000.00/-

Rs. In Words Thirthy lakhs only

.....

Under Head of A/c P. 1774

Job Code No. 014-20-000117

Registered as SE No. 97 P-3A subject

to conditions contained in Enclosed Memo

No. 97/2020-21 Dt.....

AE / JE

SE(D)

Item code	Descri
	Sup G n
35	2.6.4
36	